

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	5732	("operational amplifier" and (average or averaged or averaging).ti.	US-PGPUB; USPAT	AND	ON	2006/12/14 13:57
		S36 near (pixel or signal)	US-PGPUB; USPAT	AND	ON	2006/12/14 10:36
		("l17and"differentialamplifier").PN.	US-PGPUB; USPAT	OR	OFF	2006/12/14 10:17
		(pixel and (averaging or average or averages).ab.	US-PGPUB; USPAT	AND	ON	2007/05/10 14:04
S2	8	xu.in.	US-PGPUB; USPAT	AND	ON	2006/12/12 14:51
S3	1	xu-weize.in.	US-PGPUB; USPAT	AND	ON	2006/12/12 15:25
S4	297	("6377304").PN.	US-PGPUB; USPAT	OR	OFF	2006/12/12 16:19
S5	343	(348/243).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/12/12 17:16
S6	0	"dark reference"	US-PGPUB; USPAT	AND	ON	2006/12/12 17:17
S7	69	S5 near simultaneous	US-PGPUB; USPAT	AND	ON	2006/12/12 17:17
S8	26	S5 and simultaneous	US-PGPUB; USPAT	AND	ON	2006/12/12 17:17
S9	1	S5 and "differential amplifier"	US-PGPUB; USPAT	AND	ON	2006/12/12 17:19
S10	1393	"dark reference" near readout	US-PGPUB; USPAT	AND	ON	2006/12/12 17:20
S11	0	simultaneous pixel processing.ti.	US-PGPUB; USPAT	AND	ON	2006/12/12 17:21
S12	4	(simultaneous and pixel and processing).ti.	US-PGPUB; USPAT	AND	ON	2006/12/12 17:21
S13	0	(simultaneous and pixel).ti.	US-PGPUB; USPAT	AND	ON	2006/12/12 17:23
S14	1	(row-by-row and pixel).ti.	US-PGPUB; USPAT	AND	ON	2006/12/12 17:23
S15	25	("dark reference" and pixels).ti.	US-PGPUB; USPAT	AND	ON	2006/12/12 17:24
S16	159	(column and pixels).ti.	US-PGPUB; USPAT	AND	ON	2006/12/14 08:19
		(348/300).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/12/14 08:48

## EAST Search History

S17	143	(348/301).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/12/14 09:03
S18	89	(348/319).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/12/14 09:06
S19	64	(348/324).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/12/14 09:08
S20	756	(348/241).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/12/14 09:09
S21	183	S20 and (differential amplifier)	US-PGPUB; USPAT	AND	ON	2006/12/14 09:09
S22	183	S20 and (differential amplifier)	US-PGPUB; USPAT	AND	ON	2006/12/14 09:31
S23	1187	(348/222.1).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/12/14 09:31
S24	26	S23 and (differential adj4 amplifier)	US-PGPUB; USPAT	AND	ON	2006/12/14 09:33
S25	752	(348/294).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/12/14 09:33
S26	145	S25 and (average or averaging)	US-PGPUB; USPAT	AND	ON	2006/12/14 09:34
S27	145	S25 and (average or averaging or averages)	US-PGPUB; USPAT	AND	ON	2006/12/14 09:42
S28	91	(348/298).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/12/14 09:49
S29	438	(348/302).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/12/14 09:49
S30	141	S29 and ((average or averaging or averages) or "differential amplifier")	US-PGPUB; USPAT	AND	ON	2006/12/14 10:15
S31	0	((differential amplifier) near (average or averaging or averages)).ab.	US-PGPUB; USPAT	AND	ON	2006/12/14 10:16
S32	1438	(pixel and (averaging or average or averages)).ab.	US-PGPUB; USPAT	AND	ON	2006/12/14 10:17
S33	14	S32 and "differential amplifier"	US-PGPUB; USPAT	AND	ON	2006/12/14 10:22
S34	43	((pixel or pixels) adj6 "differential amplifier") and (average or averages or averaging)	US-PGPUB; USPAT	AND	ON	2006/12/14 10:35
S35	1	"differential amplifier" near (average or averages or averaging).ab.	US-PGPUB; USPAT	AND	ON	2006/12/14 10:36
S36	932	"differential amplifier" with (average or averages or averaging)	US-PGPUB; USPAT	AND	ON	2006/12/14 10:37

## EAST Search History

S37	32	("differential amplifier" with (average or averages or averaging)) near (pixel or signal or voltage)	US-PGPUB; USPAT	AND	ON	2006/12/14 11:06
S38	932	("differential amplifier" with (average or averages or averaging)) and (pixel or signal or voltage)	US-PGPUB; USPAT	AND	ON	2006/12/14 11:07
S39	15	("differential amplifier" with (average or averages or averaging)) near signal	US-PGPUB; USPAT	AND	ON	2006/12/14 11:09
S40	1	using adj3 "differential amplifier" adj3 averaging	US-PGPUB; USPAT	AND	ON	2006/12/14 11:10
S41	3	(use or used or using) adj3 "differential amplifier" adj5 (average or averaging or averaged)	US-PGPUB; USPAT	AND	ON	2006/12/14 11:11
S42	4632	differential amplifier with (average or averaged or averaging)	US-PGPUB; USPAT	AND	ON	2006/12/14 11:12
S43	31	(differential amplifier with (average or averaged or averaging)) near (signal or voltage or pixel)	US-PGPUB; USPAT	AND	ON	2006/12/14 11:13
S44	37	("differential amplifier" with (average or averaged or averaging)) near (signal or voltage or pixel)	US-PGPUB; USPAT	AND	ON	2006/12/14 11:19
S45	207	"differential amplifier" adj5 average	US-PGPUB; USPAT	AND	ON	2006/12/14 11:19
S46	67280	("348").CLAS.	US-PGPUB; USPAT	OR	OFF	2006/12/14 11:19
S47	25	S45 and S46	US-PGPUB; USPAT	AND	ON	2006/12/14 11:23
S48	550	"differential amplifier" with (use or used or using) with (obtain or obtained or obtaining)	US-PGPUB; USPAT	AND	ON	2006/12/14 11:24
S49	19	"differential amplifier" with (use or used or using) with (obtain or obtained or obtaining) with (average or averaging or averaged)	US-PGPUB; USPAT	AND	ON	2006/12/14 11:36
S50	1	("20030052982").PN.	US-PGPUB; USPAT	OR	OFF	2006/12/14 11:39
S51	0	("I30notI32").PN.	US-PGPUB; USPAT	OR	OFF	2006/12/14 11:39
S52	182	S45 not S47	US-PGPUB; USPAT	AND	ON	2006/12/14 11:39

## EAST Search History

S53	4892	"operational amplifier" and averaging	US-PGPUB; USPAT	AND	ON	2006/12/14 13:56
S54	36	"operational amplifier" and averaging.ti.	US-PGPUB; USPAT	AND	ON	2006/12/14 13:57
S55	0	("operational amplifier" and (average or averaged or averaging)).ti.	US-PGPUB; USPAT	AND	ON	2006/12/14 13:59
S56	1	("6130712").PN.	US-PGPUB; USPAT	OR	OFF	2006/12/14 13:59
S57	8	("1117250").PN.	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2006/12/14 15:16
S58	297	(348/243).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/12/19 14:40
S59	2	"10290397"	US-PGPUB; USPAT	AND	ON	2006/12/19 14:41
S60	1	("6974973").PN.	US-PGPUB; USPAT	OR	OFF	2006/12/20 06:50
S61	189	(348/79).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/12/20 09:11
S62	54	(348/80).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/12/20 09:11
S63	1	("6974973").PN.	US-PGPUB; USPAT	OR	OFF	2006/12/20 10:13
S64	1	("6974973").PN.	US-PGPUB; USPAT	OR	OFF	2007/05/10 14:04
S65	0	S64 and mirror	US-PGPUB; USPAT	AND	ON	2007/05/10 14:05
S66	0	S64 and mirrors	US-PGPUB; USPAT	AND	ON	2007/05/10 15:10
S67	0	("sampleandhold").PN.	US-PGPUB; USPAT	OR	OFF	2007/05/10 15:10
S68	156	"sample and hold"	US-PGPUB; USPAT	AND	ON	2007/05/10 15:19
S69	8194	"sample-and-hold"	US-PGPUB; USPAT	AND	ON	2007/05/10 15:19
S70	282	S69 same (camera or imager)	US-PGPUB; USPAT	AND	ON	2007/05/10 15:19
S71	1455	S69 and (camera or imager)	US-PGPUB; USPAT	AND	ON	2007/05/10 15:20
S72	3529	"sample-and-hold" same amplifier	US-PGPUB; USPAT	AND	ON	2007/05/10 15:20

## EAST Search History

S73	1029	"sample-and-hold" same (amplifier with differen\$5)	US-PGPUB; USPAT	AND	ON	2007/05/10 15:29
S74	146	S73 and (camera or imager)	US-PGPUB; USPAT	AND	ON	2007/05/10 15:20
S75	706	"sample-and-hold" same (amplifier with operational)	US-PGPUB; USPAT	AND	ON	2007/05/10 15:29
S76	0	"sample-and-hold" same (amplifier with operational) same averg\$4	US-PGPUB; USPAT	AND	ON	2007/05/10 15:30
S77	31	"sample-and-hold" same (amplifier with operational) same averag\$4	US-PGPUB; USPAT	AND	ON	2007/05/10 15:33
S78	301	(348/243).CCLS.	US-PGPUB; USPAT	OR	OFF	2007/05/10 15:33
S79	10	S78 and @pd>"20061010"	US-PGPUB; USPAT	AND	ON	2007/05/10 15:33